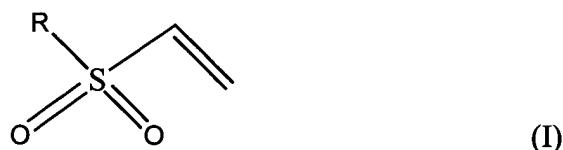


In the Abstract:

Please amend the abstract as follows:

ABSTRACT OF THE DISCLOSURE

A non-aqueous electrolyte comprising (I) a non-aqueous solvent, especially mainly composed of a cyclic carbonate and a cyclic ester, and optionally a linear carbonate, and (ii) an electrolyte salt, especially LiBF₄, dissolved therein and (iii) a vinyl sulfone derivative having the formula (I):



wherein R indicates is a C₁ to C₁₂ alkyl group, a C₂ to C₁₂ alkenyl group, or a C₃ to C₆ cycloalkyl group, and also a lithium secondary battery using the same are disclosed.